

COURSE: MATH 2055 (Calculus III)

Spring Semester 2012

CRN: 30271

INSTRUCTOR: Lori Pearman

Office: Britt hall S-217

OFFICE PHONE: 391-5118

E-MAIL: lpearman@abac.edu

STUDENT EVALUATION: Exams 70 %
quizzes 15 %
Final Exam 15 %

PREREQUISITE: MATH 2054 with a grade of C or better

MATERIALS: The text used is CALCULUS ninth edition by Larson/Hostetler/Edwards. A notebook of completed assignments should be kept for daily study and test review. Graph paper is encouraged for graphing sections. You will need a graphing calculator for this class.

CLASS ATTENDANCE: Students are expected to attend all class meetings scheduled in the courses for which they are registered. Absence from class for any reason does not excuse students from full responsibility for class work or assignments missed. Students will be allowed to make up graded work only if the instructor excuses the absence. A record of your attendance will be kept and this record will be sent to the Registrar's office with your final grade. In order for an absence to be excused, provide documentation such as a doctor's excuse.

If an exam is missed and the absence is excused by the instructor, then you will need to schedule a makeup exam at your instructor's convenience. When an absence is excused by the instructor, the test may be completed in a reasonable amount of time. A make-up test may be different from the exam given to the rest of the class. If the absence for the exam is unexcused, the student has earned a 0 on the test.

The lowest test score may be replaced by the final exam score, provided the final exam score is higher than the lowest test score. Only one exam score will be replaced. In cases where the student fails to take an exam, that score (0) may be replaced as the lowest score. Students missing more than a weeks worth (4 days) of class will have their lowest test replaced only at the discretion of the instructor.

I encourage students to be on time to class. Generally, attendance will be taken within the first few minutes of the official starting time of the class. If the student is not in his/her seat at that time, an absence will be recorded. At the end of the class period, it is the responsibility of the student who is tardy to communicate his/her attendance to the instructor so that the absence may be changed.

OFFICE HOURS: If you need my help, please come by my office S-217 in Britt hall. My office hours are as follows:

Monday 2-3

Tuesday 9-9:30, 10:30-12, 2-3

Wednesday 2-3

Thursday 10:30-12, 2-3

Friday 10-11(AAC), 1-3

- Every other Friday at 1:00 I will have a meeting with the math tutors.

Some Topics to be covered:

- Conics, Parametric equations, and polar coordinates
- Vectors and the Geometry of Space
- Vector-Valued Functions
- Functions of Several Variables
- Multiple integration
- Vector Analysis

Learning outcomes:

- demonstrate an understanding of applications of calculus and the conic sections, parametric functions, vector valued functions, and functions of several variables
- demonstrate an understanding of vector analysis
- demonstrate an understanding of multiple integration and its applications

- demonstrate an understanding of vector fields and line integrals

Note: Students enrolled in classes in the Division of Science and Mathematics will be expected to demonstrate an understanding of subject matter requiring higher order processing skills. Examination questions may include essay, synthesis, analysis, and application; as well as completion, multiple choice, true false, and matching. Computational skills and drawing or diagramming may also be required.

DISABILITIES: Reasonable accommodation will be made to students who have proper documentation and inform the instructor at the beginning of the course.

WITHDRAWALS: Refer to the ABAC catalog. The mid-term deadline for withdrawal without penalty is Feb. 29 at 4:30 p.m.

DISHONESTY: Cheating will not be tolerated. Academic dishonesty will be handled according to the ABAC catalog.